



Design Name: Computer Cooling System

Abstract:

This design covers a computer cooling system based on a blowing fan, which is mounted on wall of computer chassis.

Design Description:

Computers have found wide applications in our lives and industries, increasing efficiency greatly. Development of computing is known as another industrial revolution.

Computers offer larger capabilities and operate at higher speed than ever, but electronic elements, CPUs in particular, inside the chassis generate more heat. Computing performance is compromised if such heat is not exhausted. Other elements around CPUs may also produce heat.

The traditional computer, the prior art, is equipped with a cooling system based on a discharge fan to exhaust inside hot air. The system fan mounted on wall of the chassis is driven by internal power supply.

This configuration can offer basic function. However, such cooling system can result in vortexes or even turbulent currents inside the chassis before discharge. CPU may come with excellent cooling systems, but other elements such as capacitors have to be exposed to hot air. CPU temperature is always about 100°C which is difficult to cool down. This is the limitation of the traditional cooling system.

In view of this, Applicant, experienced in development and manufacture and marketing of PC products in the past years, has overcome the above-mentioned limitations through tests and launched this design, a computer cooling system.

Technical details of this design will now be described with reference to the following figures. Fig. 1 shows a motherboard inside a computer, while Fig. 2 illustrates the cooling system for this design.

This design is based on a blowing fan instead of the traditional discharge one on the whole. The blowing fan (1) is mounted on wall of the chassis. It is better to adjust the blowing fan to face the CPU, but it is not limited to this only. There are multiple air outlets (2) on side panels to discharge hot air out of the chassis. It is better to let the air outlets be near heating elements such as capacitors.

A filter, the prior art, is added in front of or at the back of the blowing fan (1) to filtrate floating dusts. It is not described hereon.

On the part of the CPU, the airflow sent in by the blowing fan (1) carries away heat it generates and that caused by other elements out of the air outlets, as shown in Fig. 2.